

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM325-8



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	120	12	64	+/- 3
Copper (ppm)	5286	214	69	+/- 51.8
Zinc (ppm)	1247	64	64	+/- 16.1
Lead (ppm)	595	21	58	+/- 5.6
Arsenic (ppm)	79	5	51	+/- 1.5
Cobalt (ppm)	90	4	61	+/- 1.2
Silver (ppm)	6.9	0.5	57	+/- 0.13

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	109	8	53	+/- 2.2
Copper (ppm)	5356	150	71	+/- 35.7
Zinc (ppm)	1237	42	61	+/- 10.8
Lead (ppm)	601	27	63	+/- 6.9
Arsenic (ppm)	79	3	47	+/- 1
Cobalt (ppm)	78	6	54	+/- 1.6
Silver (ppm)	7.0	0.5	72	+/- 0.13

CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)		Major Elements by Fusion / XRF (%)	
	Control statistics were produced from results accumulated in the April-2025 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	5.9	Fe
Material Description This material is described as a Cu supergene material.	Arsenic	78	SiO ₂	58.7
	Barium	370	Al ₂ O ₃	13.57
Colour Designation (ISCC-NBS, SP440) This material is medium light gray in colour.	Bromine	<2	TiO ₂	1.207
	Cadmium	<10	MnO	0.135
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	<2	CaO	5.885
	Calcium (%)	nr	P	0.064
Preparation and Packaging All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an air classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging. Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.	Cerium	39	S	0.932
	Chromium	96	MgO	3.165
Assay Testwork All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.	Cobalt	94	K ₂ O	1.85
	Europium	1.3	Na ₂ O	3.122
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	2780	LOH1000	0.875
	Hafnium	9	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
Material Safety This product is not hazardous and non-toxic.	Iridium (ppb)	<50	"nr": Not Reported	
	Iron (%)	7.2		
	Lanthanum	19		
	Lutetium	0.4		
	Mercury	nr		
	Molybdenum	38		
	Neodymium	nr		
	Nickel	130		
	Potassium (%)	nr		
	Rubidium	92		
	Samarium	4.6		
	Scandium	20.7		
	Selenium	<10		
	Silver	7		
	Sodium (%)	2.1		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	1		
	Thorium	12		
	Tin	<200		
	Tungsten	<2		
	Uranium	6		
	Ytterbium	2.7		
	Zinc	1300		
	Zirconium	<500		

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